

FILE 'HOME' ENTERED AT 13:53:05 ON 13 MAR 2003

=> file caplus

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 13:53:22 ON 13 MAR 2003

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FILE COVERS 1907 - 13 Mar 2003 VOL 138 ISS 11

FILE LAST UPDATED: 12 Mar 2003 (20030312/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> cinnamaldehyde

7135 CINNAMALDEHYDE

252 CINNAMALDEHYDES

L1 7224 CINNAMALDEHYDE

(CINNAMALDEHYDE OR CINNAMALDEHYDES)

=> reductive amination

50873 REDUCTIVE

4 REDUCTIVES

50877 REDUCTIVE

(REDUCTIVE OR REDUCTIVES)

25446 AMINATION

256 AMINATIONS

25496 AMINATION

(AMINATION OR AMINATIONS)

L2 4391 REDUCTIVE AMINATION

(REDUCTIVE (W) AMINATION)

=> l1 and l2

L3 13 L1 AND L2

=> d 13 1-13 ti

L3 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Supercritical hydrogenation of substrates

L3 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI **Reductive amination** of aldehydes and ketones by a Hantzsch dihydropyridine using scandium triflate as a catalyst

L3 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Direct **reductive amination** of aldehydes and ketones using phenylsilane: catalysis by dibutyltin dichloride

L3 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI **Reductive amination** process using a homogeneous iridium catalyst for the conversion of aldehydes and ketones into amines

L3 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI A single-step **reductive amination** of carbonyl compounds with polymethylhydrosiloxane-Ti(OiPr)<sub>4</sub>

L3 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Chemoselective **reductive amination** of aldehydes and ketones by dibutylchlorotin hydride-HMPA complex

L3 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI N-Alkyl-N-cyclopropylanilines as Mechanistic Probes in the Nitrosation of N,N-Dialkyl Aromatic Amines

L3 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI **Reductive amination** of aldehydes and ketones with dimethylamine using borohydride exchange resin (BER)

L3 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI One-Pot **Reductive Amination** of Conjugated Aldehydes and Ketones with Silica Gel and Zinc Borohydride

L3 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Trichlorosilane-dimethylformamide (Cl<sub>3</sub>SiH-DMF) as an efficient reducing agent. Reduction of aldehydes and imines and **reductive amination** of aldehydes under mild conditions using hypervalent hydridosilicates

L3 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI **Reductive amination** of piperidines with aldehydes using borane-pyridine

L3 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Electroorganic chemistry. 140. Electroreductively promoted intra- and intermolecular couplings of ketones with nitriles.

L3 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS

TI Saturated heterocyclic carboxamides, especially thiazolidinecarboxamides, useful as PAF antagonists, their pharmaceutical compositions, and processes and intermediates for their preparation

=> palladium

128271 PALLADIUM

33 PALLADIUMS

L4 128275 PALLADIUM  
(PALLADIUM OR PALLADIUMS)

=> l3 and l4

L5 1 L3 AND L4

=> d l5 ti fbib abs

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
TI Supercritical hydrogenation of substrates  
AN 2002:793577 CAPLUS  
DN 137:296565  
TI Supercritical hydrogenation of substrates  
IN Ross, Stephen Keith; Meehan, Nicola Jane; Poliakoff, Martyn; Carter, Daniel N.  
PA Thomas Swan & Co. Ltd., UK  
SO PCT Int. Appl., 20 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002081414	A2	20021017	WO 2002-GB1387	20020404
	WO 2002081414	A3	20021212		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
				GB 2001-8775	A 20010406
	GB 2374071	A1	20021009	GB 2001-8775	20010406
AB	The present invention relates to a method of carrying out hydrogenation of				
	a substrate (e.g., aniline) in the presence of a supercrit. fluid such that more than one phase is present in the reaction medium. The reaction is performed under continuous conditions. The process leads to improved yields of the desired hydrogenated product (e.g., cyclohexylamine). The process also enables the selective formation of a particular product where				
	the formation of more than one product is possible; a process flow diagram is presented.				

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
15.35	15.56

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.65	-0.65

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 13:56:16 ON 13 MAR 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CAPLUS' AT 13:59:35 ON 13 MAR 2003  
FILE 'CAPLUS' ENTERED AT 13:59:35 ON 13 MAR 2003  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	15.35	15.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.65	-0.65

=> rreductive alkylation  
0 RREDUCTIVE  
85894 ALKYLATION  
2244 ALKYLATIONS  
86423 ALKYLATION  
(ALKYLATION OR ALKYLATIONS)  
L6 0 RREDUCTIVE ALKYLATION  
(RREDUCTIVE (W) ALKYLATION)

=> reductive alkylation  
50873 REDUCTIVE  
4 REDUCTIVES  
50877 REDUCTIVE  
(REDUCTIVE OR REDUCTIVES)  
85894 ALKYLATION  
2244 ALKYLATIONS  
86423 ALKYLATION  
(ALKYLATION OR ALKYLATIONS)  
L7 2737 REDUCTIVE ALKYLATION  
(REDUCTIVE (W) ALKYLATION)

=> d his

(FILE 'HOME' ENTERED AT 13:53:05 ON 13 MAR 2003)

FILE 'CAPLUS' ENTERED AT 13:53:22 ON 13 MAR 2003

L1 7224 CINNAMALDEHYDE  
L2 4391 REDUCTIVE AMINATION  
L3 13 L1 AND L2  
L4 128275 PALLADIUM  
L5 1 L3 AND L4  
L6 0 RREDUCTIVE ALKYLATION  
L7 2737 REDUCTIVE ALKYLATION

=> 11 and 17

L8 13 L1 AND L7

=> l8 not l3

L9 12 L8 NOT L3

=> d l9 1-12 ti

L9 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Preparation of novel N-alkylaspartylamide derivatives as sweeteners

L9 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Reductive C-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and palladium catalysts

L9 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Process for the production of aspartyl dipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates

L9 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Functionalized cross-linked copolymers: a "C2-symmetric" solid-phase catalyst for enantioselective reactions

L9 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Preparation of peptide lactams as inhibitors of peptide binding to MHC class II proteins

L9 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Process for producing dioxane derivatives and pharmaceutical compositions comprising same as active ingredient

L9 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Preparation of 2,7-diamino-1,2,3,4-tetrahydronaphthalenes as drugs

L9 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Reduction of aldehyde with tributyltin hydride-hexamethylphosphoric triamide combined system

L9 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI A new reduction with hydrogen telluride

L9 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI 1-Benzhydryl-4-cinnamylpiperazine

L9 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI **Reductive alkylation** of aldehyde p-tolylsulfonylhydrazones with organolithium reagents

L9 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Substituted .alpha.-benzylphenethylamines

=> palladium

128271 PALLADIUM

33 PALLADIUMS

L10 128275 PALLADIUM

(PALLADIUM OR PALLADIUMS)

=> l9 and l10

L11 2 L9 AND L10

=> d l11 1-2 ti

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS

TI Reductive C-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and **palladium** catalysts

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS

TI Process for the production of aspartyl dipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates

=> d l11 1-2 ti fbib abs

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS

TI Reductive C-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and **palladium** catalysts

AN 2001:420165 CAPLUS

DN 135:257210

TI Reductive C-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and **palladium** catalysts

AU Jursic, B. S.; Neumann, D. M.

CS Department of Chemistry, University of New Orleans, New Orleans, LA, 70148, USA

SO Tetrahedron Letters (2001), 42(25), 4103-4107

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Science Ltd.

DT Journal

LA English

OS CASREACT 135:257210

AB Effective synthetic procedures are described for the prepn. of mono- and di-C-alkylated barbituric acid derivs. through **palladium** and platinum catalytic hydrogenation of solns. of barbituric acids (unsubstituted, N-mono-, and N,N'-disubstituted barbituric acids) and carbonyl compds. (aliph. and arom. aldehydes and ketones).

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS

TI Process for the production of aspartyl dipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates

AN 2001:265443 CAPLUS

DN 134:281142

TI Process for the production of aspartyl dipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates

IN Nagashima, Kazutaka; Aoki, Yuuichi; Takemoto, Tadashi; Amino, Yusuke; Funakoshi, Nao; Ono, Eriko

PA Ajinomoto Co., Inc., Japan

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

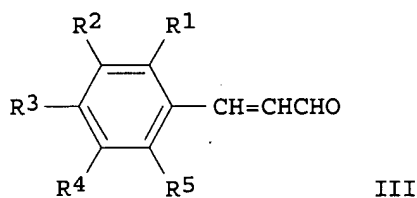
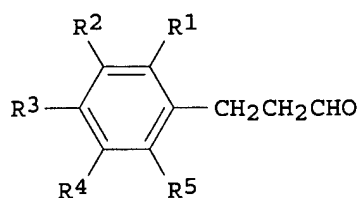
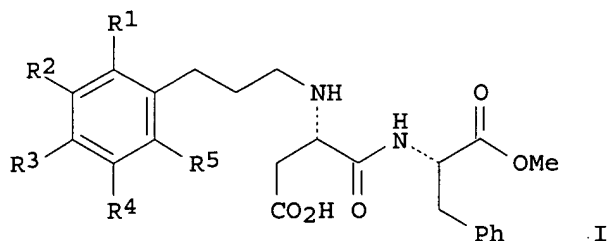
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001025260	A1	20010412	WO 2000-JP6626	20000926
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				

CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
 HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,  
 LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,  
 SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,  
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 2000073219 A5 20010510 JP 1999-287398 A 19991007  
 JP 1999-371284 A 19991227  
 AU 2000-73219 20000926  
 JP 1999-287398 A 19991007  
 JP 1999-371284 A 19991227  
 WO 2000-JP6626 W 20000926  
 EP 1231215 A1 20020814 EP 2000-961237 20000926  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL  
 JP 1999-287398 A 19991007  
 JP 1999-371284 A 19991227  
 WO 2000-JP6626 W 20000926  
 US 2002133037 A1 20020919 US 2002-117196 20020408  
 JP 1999-287398 A 19991007  
 JP 1999-371284 A 19991227  
 WO 2000-JP6626 A120000926

OS CASREACT 134:281142; MARPAT 134:281142  
 GI



AB Industrial and efficient processes for producing aspartyl dipeptide ester derivs. of general formula (I; R1-R5 = H, OH, C1-3 alkoxy, C1-3 alkyl, benzyloxy, C2-3 hydroxyalkyloxy; or R1 and R2 or R2 and R3 together represents methylenedioxy), which are expected to serve as sweetener (no data), comprise **reductive alkylation** of aspartame with propionaldehydes or **cinnamaldehydes** of general formulas (II) and (III) in the presence of a catalyst. Particularly, described are an industrial and efficient process for producing N-[N-[3-(3-hydroxy-4-

methoxyphenyl)propyl]-L-aspartyl]-L-phenylalanine 1-Me ester (IV) which is excellent as high sweetener; useful and advantageous intermediates for the process; and efficient processes for producing the intermediates. Thus, 5.89 g aspartame and 3.42 g 3-(3-hydroxy-4-methoxyphenyl)propionaldehyde (prepn. given) were added to 200 mL 80% aq. methanol, stirred at 40.degree. for a while, and hydrogenated in the presence of 1.78 10% Pd-C at 0.1 M Pa and 40.degree. for 40 h to give 78.9% IV.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	35.13	35.34
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.95	-1.95

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 14:02:45 ON 13 MAR 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CAPLUS' AT 14:19:23 ON 13 MAR 2003  
FILE 'CAPLUS' ENTERED AT 14:19:23 ON 13 MAR 2003  
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	35.13	35.34
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.95	-1.95

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	35.13	35.34
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.95	-1.95

FILE 'REGISTRY' ENTERED AT 14:19:39 ON 13 MAR 2003  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7  
DICTIONARY FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e cinnamaldehyde/cn

E1	1	CINNAMALACETOPHENONE TETRABROMIDE/CN
E2	1	CINNAMALANILINE/CN
E3	1 -->	CINNAMALDEHYDE/CN
E4	1	CINNAMALDEHYDE 5-NITRO-2-PYRIDYLHYDRAZONE/CN
E5	1	CINNAMALDEHYDE ANIL/CN
E6	1	CINNAMALDEHYDE ANTIOXIME/CN
E7	1	CINNAMALDEHYDE CHLOROOXIME/CN
E8	1	CINNAMALDEHYDE CYCLIC ETHYLENE ACETAL/CN
E9	1	CINNAMALDEHYDE DI-TERT-BUTYL DITHIOACETAL/CN
E10	1	CINNAMALDEHYDE DIMETHYL ACETYL/CN
E11	1	CINNAMALDEHYDE DIPHENYL THIOACETAL/CN
E12	1	CINNAMALDEHYDE ETHYLENE GLYCOL ACETAL/CN

=> e3

L12 1 CINNAMALDEHYDE/CN

=> d l12

L12 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 104-55-2 REGISTRY

CN 2-Propenal, 3-phenyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN **Cinnamaldehyde** (8CI)

OTHER NAMES:

CN .beta.-Phenylacrolein

CN 3-Phenyl-2-propen-1-al

CN 3-Phenyl-2-propenal

CN 3-Phenyl-2-propenaldehyde

CN 3-Phenyl-2-propene-1-al

CN 3-Phenylacrolein

CN 3-Phenylacrylaldehyde

CN 3-Phenylpropenal

CN Abion CA

CN Benzylideneacetaldehyde

CN Cassia aldehyde

CN Cinnamal

CN Cinnamic aldehyde

CN Cinnamite

CN Cinnamyl aldehyde

CN Phenylacrolein  
 CN Zimtaldehyde  
 FS 3D CONCORD  
 MF C9 H8 O  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
 BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,  
 CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU,  
 EMBASE, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*,  
 MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM\*, PIRA, PROMT, RTECS\*, SPECINFO,  
 TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

Ph-CH=CH-CHO

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6405 REFERENCES IN FILE CA (1962 TO DATE)  
 85 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 6419 REFERENCES IN FILE CAPLUS (1962 TO DATE)  
 5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> filecaplus

0 FILECAPLUS  
 L13 0 FILECAPLUS

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.52	45.86
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.95

FILE 'CAPLUS' ENTERED AT 14:20:26 ON 13 MAR 2003  
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FILE COVERS 1907 - 13 Mar 2003 VOL 138 ISS 11  
 FILE LAST UPDATED: 12 Mar 2003 (20030312/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 13:53:05 ON 13 MAR 2003)

FILE 'CAPLUS' ENTERED AT 13:53:22 ON 13 MAR 2003

L1 7224 CINNAMALDEHYDE  
L2 4391 REDUCTIVE AMINATION  
L3 13 L1 AND L2  
L4 128275 PALLADIUM  
L5 1 L3 AND L4  
L6 0 RREDUCTIVE ALKYLATION  
L7 2737 REDUCTIVE ALKYLATION  
L8 13 L1 AND L7  
L9 12 L8 NOT L3  
L10 128275 PALLADIUM  
L11 2 L9 AND L10

FILE 'REGISTRY' ENTERED AT 14:19:39 ON 13 MAR 2003

E CINNAMALDEHYDE/CN  
L12 1 E3  
L13 0 FILECAPLUS

FILE 'CAPLUS' ENTERED AT 14:20:26 ON 13 MAR 2003

=> l2 or l7

L14 6852 L2 OR L7

=> l12

L15 6420 L12

=> l15 or l1

L16 9948 L15 OR L1

=> l14 and l16

L17 33 L14 AND L16

=> l17 not (l3 or l9)

L18 8 L17 NOT (L3 OR L9)

=> d l18 1-8 ti

L18 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS

TI Preparation and formulation of thiazolidinecarboxamide derivatives as platelet-activating factor (PAF) antagonists

L18 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS

TI .alpha.-Glucosidase inhibitors, 3. 4-(Alkylamino)-4,6-dideoxy sugars via **reductive amination**

L18 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS

TI Reduction of reducible groups and their use

L18 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS

TI N-Substituted pseudo-amino sugars and their use

L18 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 TI Valienamine derivatives and their use

L18 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 TI Adjacently disubstituted ketones, prostaglandins E1 and antithrombotic compositions containing them

L18 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 TI **Reductive amination** of .alpha.,.beta.-unsaturated carbonyl compounds with tetracarbonylhydridoferrate as a reducing agent

L18 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 TI Synthesis of aldehydes

=> d l18 1-8 ti fbib abs

L18 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 TI Preparation and formulation of thiazolidinecarboxamide derivatives as platelet-activating factor (PAF) antagonists  
 AN 1991:514494 CAPLUS  
 DN 115:114494  
 TI Preparation and formulation of thiazolidinecarboxamide derivatives as platelet-activating factor (PAF) antagonists  
 IN Mase, Toshiyasu; Hara, Hiromu; Nagaoka, Hitoshi; Takahashi, Takumi; Suzuki, Takeshi; Tomioka, Kenichi; Yamada, Toshimitsu  
 PA Yamanouchi Pharmaceutical Co., Ltd., Japan  
 SO U.S., 82 pp. Cont.-in-part of U.S. Ser. No. 157,406, abandoned.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4987132	A	19910122	US 1988-232899	19880816
				JP 1987-36950	19870220
				JP 1987-125259	19870521
				JP 1987-249499	19871001
				US 1988-157406	19880217
	ZA 8801182	A	19881026	ZA 1988-1182	19880219
				JP 1987-36950	19870220
	JP 02000179	A2	19900105	JP 1988-37224	19880219
	JP 06031230	B4	19940427		
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				JP 1987-125259	19870521
				JP 1987-249499	19871001
				JP 1988-13928	19880125
	JP 07002844	A2	19950106	JP 1993-205720	19930728
				JP 1987-36950	19870220
				JP 1987-125259	19870521
				JP 1987-249499	19871001
				JP 1988-13928	19880125

PATENT FAMILY INFORMATION:

FAN 1989:23877

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 279681	A2	19880824	EP 1988-301397	19880219
	EP 279681	A3	19891115		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
				JP 1987-36950	19870220

CN 1030415	A	19890118
FI 8800757	A	19880821
FI 93113	B	19941115
FI 93113	C	19950227

DK 8800866	A	19880822
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NO 8800740	A	19880822
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ZA 8801182	A	19881026
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JP 02000179	A2	19900105
JP 06031230	B4	19940427

HU 50335	A2	19900129
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AU 8812080	A1	19880825
AU 618726	B2	19920109

AU 9214013	A1	19920625
AU 646156	B2	19940210

JP 07002844	A2	19950106
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JP 1987-125259	19870521
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FI 1988-757	19880218

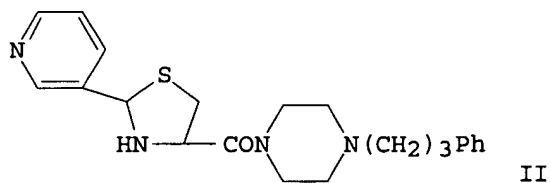
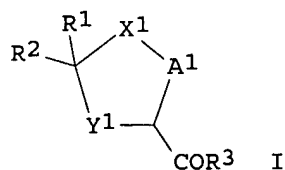
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JP 1987-125259	19870521
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DK 1988-866	19880219
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JP 1987-249499	19871001
NO 1988-740	19880219
JP 1987-36950	19870220
JP 1987-125259	19870521
JP 1987-249499	19871001
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JP 1987-36950	19870220
JP 1988-37224	19880219

JP 1987-36950	19870220
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JP 1987-36950	19870220
JP 1987-125259	19870521
JP 1987-249499	19871001
AU 1988-12080	19880222

JP 1987-36950	19870220
JP 1987-125259	19870521
JP 1987-249499	19871001
AU 1992-14013	19920401

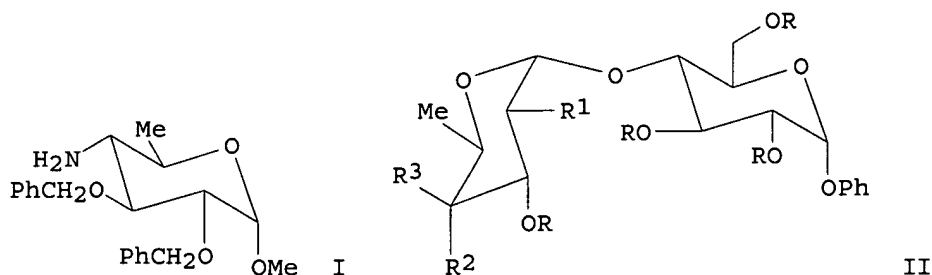
JP 1987-36950	19870220
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JP 1987-36950	19870220
JP 1987-125259	19870521
JP 1987-249499	19871001
JP 1988-13928	19880125

OS MARPAT 115:114494  
GI



AB The title compds. [I; R1 = (un)substituted 5- or 6-membered hetero- or benzoheterocyclyl; R2 = H, alkyl, R1; X1 = O, S, CH2, alkylidene; Y1 = O, S, NR4; R4 = H, alkyl, CO2H, acyl, alkoxycarbonyl; A1 = CH2, CH2CH2, optionally substituted by alkyl groups; R3 = NR5R6, NHNR8R9, NR10OR11; one of R5, R6 = H, (un)substituted hydrocarbyl and the other = (un)substituted hydrocarbyl, R1; R5R6 = A2ZR7A3, A2OA3; A2, A3 = (un)substituted alkylene; Z = CH, N; R7 = H, CO2H, acyl, alkoxycarbonyl, CONH2, mono- or dialkylcarbamoyl, (un)substituted hydrocarbyl; R8-R11 = H, alkyl, aralkyl, aryl] are prepd. as PAF antagonists. Amidation of 2-(3-pyridyl)thiazolidine-4-carboxylic acid with 1-(3-phenylpropyl)piperazine using DCC in the presence of 1-hydroxybenzotriazole in DMF gave 60% (thiazolidinylcarbonyl)piperazine II, isolated as its trihydrochloride, which had an IC50 of 0.054 .mu.M in vitro for inhibition of PAF-induced rabbit platelet aggregation. Tablet formulation was given.

L18 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 TI .alpha.-Glucosidase inhibitors, 3. 4-(Alkylamino)-4,6-dideoxy sugars via **reductive amination**  
 AN 1985:437680 CAPLUS  
 DN 103:37680  
 TI .alpha.-Glucosidase inhibitors, 3. 4-(Alkylamino)-4,6-dideoxy sugars via **reductive amination**  
 AU Koehn, Arnim; Schmidt, Richard R.  
 CS Fak. Chem., Univ. Konstanz, Konstanz, D-7750, Fed. Rep. Ger.  
 SO Liebigs Annalen der Chemie (1985), (4), 775-84  
 CODEN: LACHDL; ISSN: 0170-2041  
 DT Journal  
 LA German  
 OS CASREACT 103:37680  
 GI

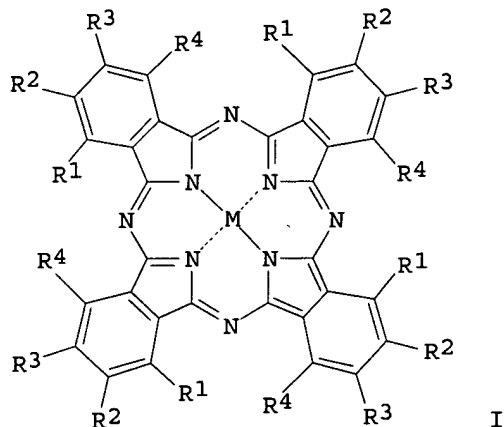


AB Alkylamino sugars structurally derived from acarbose were obtained by **reductive amination** of aldehydes or ketones with amino sugars in presence of NaCNBH3. Amino sugars investigated were the 4-amino-4,6-dideoxy-D-glucose I, the 4'-amino-4',6'-dideoxymaltosides II (R = R1 = R3 = H, R2 = NH2; R = CH2Ph, R1 = OCH2Ph, R2 = NH2, R3 = H), and 4-amino-4,6-dideoxy-.alpha.-D-galactopyranosyl-(1.fwdarw.4)-.alpha.-D-glucopyranoside II (R = CH2Ph, R1 = OCH2Ph, R2 = H, R3 = NH2).

L18 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 TI Reduction of reducible groups and their use  
 AN 1983:421589 CAPLUS  
 DN 99:21589  
 TI Reduction of reducible groups and their use  
 IN Eckert, Heiner  
 PA Fed. Rep. Ger.  
 SO Ger. Offen., 24 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3121478	A1	19821216	DE 1981-3121478	19810529
	DE 3121478	C2	19860522		
	EP 66103	A1	19821208	EP 1982-103817	19820504
	EP 66103	B1	19850828		
	R: BE, CH, DE, FR, GB, IT, NL				
	US 4537713	A	19850827	DE 1981-3121478	19810529
				US 1982-379789	19820519
				DE 1981-3121478	19810529
	JP 57203018	A2	19821213	JP 1982-92058	19820529
				DE 1981-3121478	19810529

GI



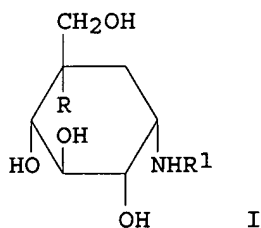
AB Phthalocyanins I (M = Pt group metal, R1-R4 = H, halo, cyano, etc. an adjacent groups are benzo) catalyzed the redn. of C-C, C-N, N-N, or N-O double bonds, e.g., in NO<sub>2</sub>, NO, NOH, etc. I could also be used for the removal of protective groups in peptides.

L18 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 TI N-Substituted pseudo-amino sugars and their use  
 AN 1982:598515 CAPLUS  
 DN 97:198515  
 TI N-Substituted pseudo-amino sugars and their use  
 IN Horii, Satoshi; Kameda, Yukihiro; Fukase, Hiroshi

PA Takeda Chemical Industries, Ltd. , Japan  
 SO Eur. Pat. Appl., 60 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 56194	A1	19820721	EP 1981-306141	19811224
	EP 56194	B1	19840912		
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				JP 1981-561	19810105
				JP 1981-84635	19810602
				JP 1981-159657	19811006
				JP 1981-561	19810105
	JP 57114554	A2	19820716		
	JP 01061100	B4	19891227		
	JP 57200335	A2	19821208	JP 1981-84635	19810602
	JP 02038580	B4	19900831		
	JP 58059946	A2	19830409	JP 1981-159657	19811006
	JP 02039501	B4	19900905		
	US 4701559	A	19871020	US 1981-334986	19811228
				JP 1981-561	19810105
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	CA 1184181	A1	19850319	CA 1982-393545	19820104
				JP 1981-561	19810105
				JP 1981-84635	19810602
				JP 1981-159657	19811006
	US 4777294	A	19881011	US 1987-39278	19870417
				JP 1981-561	19810105
				JP 1981-84635	19810602
				JP 1981-159657	19811006
				US 1981-334986	19811228
	US 4803303	A	19890207	US 1987-39277	19870417
				JP 1981-561	19810105
				JP 1981-84635	19810602
				JP 1981-159657	19811006
				US 1981-334986	19811228

OS CASREACT 97:198515  
 GI



AB The title sugars I [R = H, OH; R1 = (un)substituted C1-10 alkyl, (un)substituted C3-7 cycloalkyl] were prepd. Thus, validamine was treated with CO(CH2OH)2 and NaBH3CN to give N-(1,3-dihydroxy-2-propyl)validamine. I showed excellent inhibitory activity against .alpha.-glucosidase and are

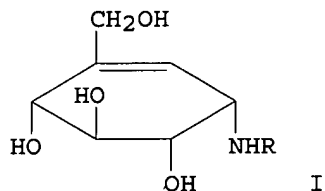


therefore useful for hyperglycemic symptoms and various disorders caused by hyperglycemia.

L18 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 TI Valienamine derivatives and their use  
 AN 1982:528005 CAPLUS  
 DN 97:128005  
 TI Valienamine derivatives and their use  
 IN Horii, Satoshi; Kameda, Yukihiro; Fukase, Hiroshi  
 PA Takeda Chemical Industries, Ltd. , Japan  
 SO Eur. Pat. Appl., 47 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 49981	A1	19820421	EP 1981-304570	19811002
	EP 49981	B1	19840725		
	R: BE, CH, DE, FR, GB, IT, NL, SE				
	JP 57064648	A2	19820419	JP 1980-140172	19801006
	JP 63040418	B4	19880811	JP 1980-140172	19801006
	US 4486602	A	19841204	US 1981-306774	19810929
				JP 1980-140172	19801006
	CA 1173041	A1	19840821	CA 1981-387251	19811005
				JP 1980-140172	19801006

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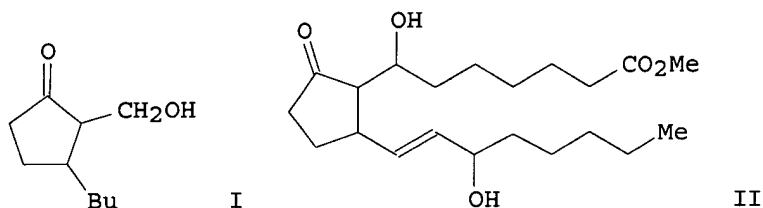
AB Valienamine derivs. I [R = (un)substituted C1-10 alkyl, polyhydroxyalkyl, (un)substituted C3-7 cycloalkyl], with glucoside hydrolase inhibiting activity (activity given) and thus useful for hyperglycemic symptoms and various disorders caused by hyperglycemia, were prepd. from valienamine. Thus, valienamine (4.0 g) was treated with 2.6 mL PhCH<sub>2</sub>Br in MeOH-dioxane in the presence of NaHCO<sub>3</sub> to give 1.8 g N-benzylvalienamine.

L18 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 TI Adjacently disubstituted ketones, prostaglandins E1 and antithrombotic compositions containing them  
 AN 1981:191784 CAPLUS  
 DN 94:191784  
 TI Adjacently disubstituted ketones, prostaglandins E1 and antithrombotic compositions containing them  
 IN Noyori, Ryoji; Suzuki, Masaaki; Kurozumi, Seizi  
 PA Teijin Ltd., Japan  
 SO Eur. Pat. Appl., 69 pp.  
 CODEN: EPXXDW  
 DT Patent

LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 19475	A2	19801126	EP 1980-301617	19800516
	EP 19475	A3	19810211		
	R: CH, DE, FR, GB				
	JP 55153725	A2	19801129	JP 1979-60293	19790518
	JP 01011620	B4	19890227	JP 1979-60293	19790518
	US 4315032	A	19820209	US 1980-149584	19800514
				JP 1979-60293	19790518
	EP 38613	A1	19811028	EP 1981-200597	19800516
	EP 38613	B1	19840829		
	R: CH, DE, FR, GB				
	JP 01045331	A2	19890217	JP 1979-60293	19790518
	JP 03006127	B4	19910129	JP 1988-176940	19880718
				JP 1979-60293	19790518

GI



AB Cyclopentenones were subjected to reductive metalation-alkylation with CuI, an organolithium compd., and an aldehyde. Thus, BuLi in hexane was added dropwise to CuI, Bu3P, and Et2O under argon at -78.degree.,  
BF3.Et2O added, 2-cyclopenten-1-one in Et2O added dropwise, the mixt. stirred and warmed to -40.degree., THF added, and HCHO blown in with argon to give I. The method was extended to the synthesis of prostaglandin analogs such as II.

L18 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS

TI **Reductive amination** of .alpha.,.beta.-unsaturated carbonyl compounds with tetracarbonylhydridoferrate as a reducing agent

AN 1979:490641 CAPLUS

DN 91:90641

TI **Reductive amination** of .alpha.,.beta.-unsaturated carbonyl compounds with tetracarbonylhydridoferrate as a reducing agent

AU Kim, Hong-Seok; Shim, Sang Chul; Shim, Sang Chull

CS Dep. Chem., Korea Adv. Inst. Sci., Seoul, S. Korea

SO Taehan Hwahakhoe Chi (1979), 23(2), 99-103

CODEN: DHWHAB; ISSN: 0418-2472

DT Journal

LA English

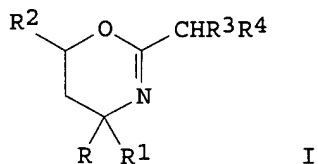
AB The **reductive amination** of RCH:CHCHO (R = Ph, Me, H) was carried out by KHF<sub>6</sub>(CO)<sub>4</sub> in the presence of primary amines. The products, secondary amines, were obtained in yields from 21 to 62%.

L18 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS

TI Synthesis of aldehydes  
 AN 1979:103418 CAPLUS  
 DN 90:103418  
 TI Synthesis of aldehydes  
 IN Meyers, Albert I.  
 PA Louisiana State University Agricultural and Mechanical College, USA  
 SO U.S., 10 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 4131623	A	19781226	US 1969-840062	19690708
				US 1969-840062	19690708

GI



AB 1,3-Oxazines I (R, R1, R2 = H, Me, Et, Pr; R3 = R4 = H, Ph, cyano, OMe, carbalkoxy) were treated with alkali metal alkyls and electrophiles, the products were reduced by hydride, and the perhydrooxazines obtained were cleaved by oxalic acid to give the resp. R5CR3R4CHO (R5 = electrophile residue). The reaction of I (R = R1 = R2 = Me, R3 = R4 = H) with BuLi and styrene oxide and redn. and ring cleavage of the product gave HOCH2CHPhCH2CHO.

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STRUCTURE FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7  
 DICTIONARY FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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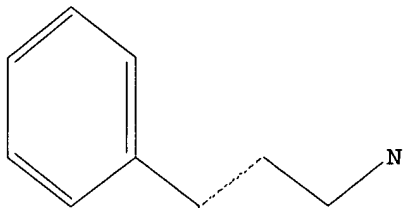
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L19 STRUCTURE UPLOADED

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L19 HAS NO ANSWERS

L19 STR



Structure attributes must be viewed using STN Express query preparation.

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2.3% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

50 ANSWERS

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BATCH \*\*INCOMPLETE\*\*

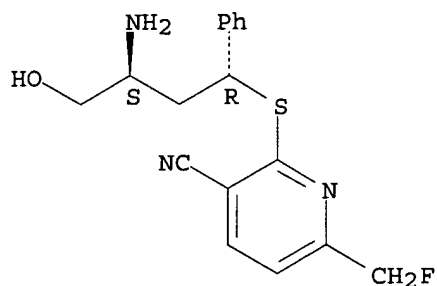
PROJECTED ITERATIONS: 863103 TO 887977  
PROJECTED ANSWERS: 549495 TO 569445

L20 50 SEA SSS SAM L19

=> d scan

L20 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN 3-Pyridinecarbonitrile,  
2-[[ (1R,3S)-3-amino-4-hydroxy-1-phenylbutyl]thio]-  
6-(fluoromethyl)- (9CI)  
MF C17 H18 F N3 O S  
CI COM

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

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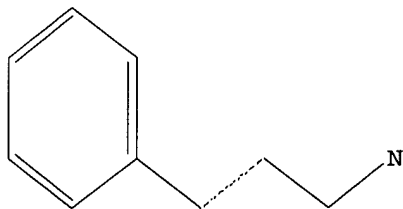
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L21 STRUCTURE UPLOADED

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L21 HAS NO ANSWERS

L21 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l21 sss sam

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SEARCH TIME: 00.00.01

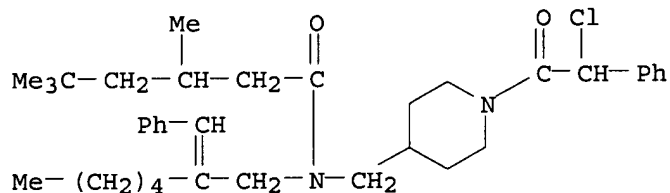
50 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*  
BATCH \*\*INCOMPLETE\*\*  
PROJECTED ITERATIONS: 863103 TO 887977  
PROJECTED ANSWERS: 53712 TO 60108

L22 50 SEA SSS SAM L21

=> d scan

L22 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
 IN Hexanamide, N-[[1-(chlorophenylacetyl)-4-piperidinyl]methyl]-3,5,5-  
 trimethyl-N-[2-(phenylmethylene)heptyl]- (9CI)  
 MF C37 H53 Cl N2 O2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

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 FULL SCREEN SEARCH COMPLETED - 873928 TO ITERATE

45.8% PROCESSED 400000 ITERATIONS  
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
 SEARCH TIME: 00.00.08

25363 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*  
 BATCH \*\*INCOMPLETE\*\*  
 PROJECTED ITERATIONS: 873928 TO 873928  
 PROJECTED ANSWERS: 54708 TO 56118

L23 25363 SEA SSS FUL L21

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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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ENTRY	SESSION
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CA SUBSCRIBER PRICE

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STN INTERNATIONAL SESSION SUSPENDED AT 14:29:44 ON 13 MAR 2003

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PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*

SESSION RESUMED IN FILE 'REGISTRY' AT 14:33:03 ON 13 MAR 2003  
FILE 'REGISTRY' ENTERED AT 14:33:03 ON 13 MAR 2003  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	150.55	227.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.16

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	150.55	227.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.16

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FILE LAST UPDATED: 12 Mar 2003 (20030312/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L3	13 L1 AND L2
L4	128275 PALLADIUM
L5	1 L3 AND L4
L6	0 RREDUCTIVE ALKYLATION
L7	2737 REDUCTIVE ALKYLATION
L8	13 L1 AND L7
L9	12 L8 NOT L3
L10	128275 PALLADIUM
L11	2 L9 AND L10

FILE 'REGISTRY' ENTERED AT 14:19:39 ON 13 MAR 2003  
E CINNAMALDEHYDE/CN

L12 1 E3  
L13 0 FILECAPLUS

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L14 6852 L2 OR L7  
L15 6420 L12  
L16 9948 L15 OR L1  
L17 33 L14 AND L16  
L18 8 L17 NOT (L3 OR L9)

FILE 'REGISTRY' ENTERED AT 14:25:48 ON 13 MAR 2003

L19 STRUCTURE UPLOADED  
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L21 STRUCTURE UPLOADED  
L22 50 SEARCH L21 SSS SAM  
L23 25363 SEARCH L21 SSS FULL

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=> l4 and l25  
L26 4 L4 AND L25

=> d l26 1-4 ti fbib abs

L26 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS  
TI Process for preparation of hydrazine derivatives  
AN 2001:676764 CAPLUS  
DN 135:227017  
TI Process for preparation of hydrazine derivatives  
IN Mizufune, Hideya; Nakamura, Minoru; Yamamoto, Hiroaki; Miki, Shokyo  
PA Takeda Chemical Industries, Ltd., Japan  
SO PCT Int. Appl., 126 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2001066541	A1	20010913	WO 2001-JP1750	20010307
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,				
	HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT,				
	LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				
	SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,				
	YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				



DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

JP 2001322991 A2 20011120 JP 2000-68670 A 20000308  
JP 2001-64660 20010308  
JP 2000-68670 A 20000308

OS CASREACT 135:227017; MARPAT 135:227017

AB This document discloses industrial processes for prepg. hydrazine  
derivs.,

e.g. R1R2NNHCHR3R4 [wherein R1, R2, R3 and R4 are each hydrogen, an  
optionally substituted hydrocarbon group, or the like] by reducing  
hydrazone derivs. with a solid amine-borane complex. These processes  
make it possible to prep. hydrazine derivs. useful as drugs, agricultural  
chems., foods, cosmetics, or chem. products, or intermediates thereof.  
Thus, 4-(6-chloronaphthalen-2-sulfonyl)-1-[1-(4-pyridyl)-4-  
piperidinylamino]-2-piperazinone was prepd. in 84% yield by redn. of the  
corresponding hydrazone deriv. by borane dimethylamine complex.

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS

TI **Palladium-Copper Catalyzed Synthesis of Benzofused Heterocycles**  
with Two Heteroatoms: Novel and Highly Regio- and Stereoselective  
Syntheses of (E)-2-(2-Arylvinyl)-3-tosyl-2,3-dihydro-1,3-benzothiazoles  
and (E)-2-Alkyl(aryl)idene-3,4-dihydro-2H-1,4-benzothiazines

AN 2001:412561 CAPLUS

DN 135:152767

TI **Palladium-Copper Catalyzed Synthesis of Benzofused Heterocycles**  
with Two Heteroatoms: Novel and Highly Regio- and Stereoselective  
Syntheses of (E)-2-(2-Arylvinyl)-3-tosyl-2,3-dihydro-1,3-benzothiazoles  
and (E)-2-Alkyl(aryl)idene-3,4-dihydro-2H-1,4-benzothiazines

AU Kundu, Nitya G.; Nandi, Bidisha

CS Department of Organic Chemistry, Indian Association for the Cultivation  
of

Science, Jadavpur Calcutta, 700 032, India

SO Journal of Organic Chemistry (2001), 66(13), 4563-4575

CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

DT Journal

LA English

OS CASREACT 135:152767

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB A highly novel, general, and convenient **palladium** and  
copper-catalyzed procedure has been developed for the synthesis of  
(E)-arylvinyl dihydrobenzothiazoles such as I (R = Ph, 1-C10H7, 2-C10H7,  
3-ClC6H4, 2-MeC6H4, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4, 2-thienyl,  
2,4-dimethoxy-5-pyrimidinyl) and II (X = 1,3-C6H4, 1,4-C6H4,  
2,5-thiophenediyl). Aminophenylthiopropyne 2-H2NC6H4SCH2C.tplbond.CH  
reacts with aryl iodides RI in the presence of  
dichlorobis(triphenylphosphine)**palladium** and copper (I) iodide  
to give disubstituted alkynes which undergo tosylation to give  
cyclization

substrates such as arylpropynylthio-N-tosylanilines III (R = Ph, 1-C10H7,  
2-C10H7, 3-ClC6H4, 2-MeC6H4, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4, 2-thienyl,

2,4-dimethoxy-5-pyrimidinyl). III undergo novel cyclizations in the presence of CuI and triethylamine in THF to give dihydrobenzothiazoles I regio- and stereoselectively rather than the expected alkylidenedihydrobenzothiazines. Arylethyl benzothiazolines IV (R1 = Ph, 1-C10H7, 2-C10H7, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4), (E)-arylvinyl benzothiazoles such as V (R2 = Ph, 1-C10H7, 2-C10H7, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4) and a novel 5-substituted uracil deriv. of potential biol. importance were also prepd. The **palladium**-copper-catalyzed arylation of propynylaminophenyl dimethylthiocarbamate 2-[Me2NC(:O)S]C6H4NHCH2C.tplbond.CH (VI) with aryl iodides gave the substituted arylpropynylaminophenyl dimethylthiocarbamates VII 2-[Me2NC(:O)S]C6H4NR3CH2C.tplbond.CR4 (R3 = H, Me, PhCH2; R4 = Ph, 1-C10H7, 2-C10H7, 3-ClC6H4, 2-MeC6H4, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4, 2-thienyl); cyclization of VII with KOH in methanol leads to (E)-arylmethylidenedihydrobenzothiazines VIII (R3 = H, Me, PhCH2; R4 =

Ph,

1-C10H7, 2-C10H7, 3-ClC6H4, 2-MeC6H4, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4, 2-thienyl). Reaction of 1,2-diiodobenzene, 1,4-diiodobenzene, and 2,5-diiodothiophene with VI in the presence of dichlorobis(triphenylphosphine)**palladium** and copper (I) iodide involved the participation of only one of the iodo groups in the heteroannulation process to give VIII (R3 = H; R4 = 2-IC6H4, 4-IC6H4, 5-iodothiophen-2-yl). VIII (R3 = H; R4 = 4-IC6H4, 5-iodothiophen-2-yl) underwent Heck reaction and Sonogashira coupling, resp., to give VIII [R3 = H; R4 = 5-(trans-methoxycarbonylvinyl)thiophen-2-yl, 4-(PhC.tplbond.C)C6H4].

RE.CNT 129 THERE ARE 129 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

TI Process for the production of aspartyl dipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates

AN 2001:265443 CAPLUS

DN 134:281142

TI Process for the production of aspartyl dipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates

IN Nagashima, Kazutaka; Aoki, Yuuichi; Takemoto, Tadashi; Amino, Yusuke; Funakoshi, Nao; Ono, Eriko

PA Ajinomoto Co., Inc., Japan

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

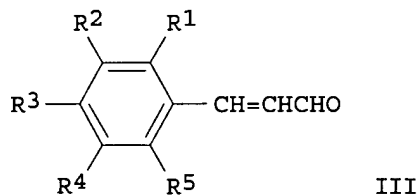
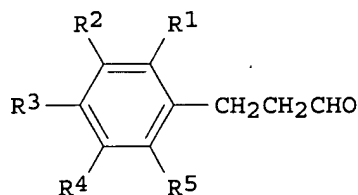
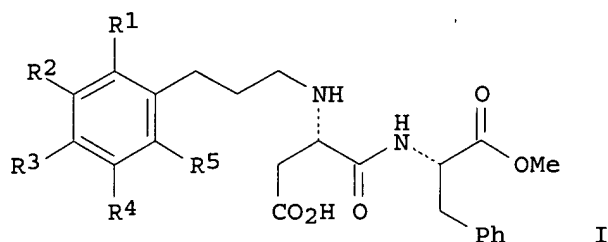
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001025260	A1	20010412	WO 2000-JP6626	20000926
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				JP 1999-287398 A	19991007
				JP 1999-371284 A	19991227

AU 2000073219	A5	20010510	AU 2000-73219	20000926
			JP 1999-287398 A	19991007
			JP 1999-371284 A	19991227
			WO 2000-JP6626 W	20000926
EP 1231215	A1	20020814	EP 2000-961237	20000926
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
			JP 1999-287398 A	19991007
			JP 1999-371284 A	19991227
			WO 2000-JP6626 W	20000926
US 2002133037	A1	20020919	US 2002-117196	20020408
			JP 1999-287398 A	19991007
			JP 1999-371284 A	19991227
			WO 2000-JP6626 A	20000926

OS CASREACT 134:281142; MARPAT 134:281142  
GI



AB Industrial and efficient processes for producing aspartyl dipeptide ester derivs. of general formula (I; R1-R5 = H, OH, C1-3 alkoxy, C1-3 alkyl, benzyloxy, C2-3 hydroxyalkyloxy; or R1 and R2 or R2 and R3 together represents methylenedioxy), which are expected to serve as sweetener (no data), comprise reductive alkylation of aspartame with propionaldehydes or

**cinnamaldehydes** of general formulas (II) and (III) in the presence of a catalyst. Particularly, described are an industrial and efficient process for producing N-[N-[3-(3-hydroxy-4-methoxyphenyl)propyl]-L-aspartyl]-L-phenylalanine 1-Me ester (IV) which is excellent as high sweetener; useful and advantageous intermediates for the process; and efficient processes for producing the intermediates. Thus, 5.89 g aspartame and 3.42 g 3-(3-hydroxy-4-methoxyphenyl)propionaldehyde (prepn. given) were added to 200 mL 80% aq. methanol, stirred at 40.degree. for a while, and hydrogenated in the presence of 1.78 10% Pd-C at 0.1 M Pa and 40.degree. for 40 h to give 78.9% IV.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS  
 TI **Palladium**-catalyzed chemoselective intramolecular cyclization of  
 bromoanilinoalkenenitriles  
 AN 1997:706418 CAPLUS  
 DN 128:22487  
 TI **Palladium**-catalyzed chemoselective intramolecular cyclization of  
 bromoanilinoalkenenitriles  
 AU Yang, Chau-Chen; Tai, Huo-Mu; Sun, Pei-Jiun  
 CS Department of Cosmetic Science, Chia Nan College of Pharmacy and Science,  
 Tainan, 717, Taiwan  
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and  
 Bio-Organic Chemistry (1997), (19), 2843-2850  
 CODEN: JCPRB4; ISSN: 0300-922X  
 PB Royal Society of Chemistry  
 DT Journal  
 LA English  
 AB .alpha.-(O-Bromoanilino)alkenenitriles 2-BrC6H4NMeCHRCN (R = MeCH:CH,  
 PrCH:CH, etc.) and 2-BrC6H4NMeC(CN):CHR1 (R1 = Et, Bu, CHMe2, CH2Ph,  
 EtCH:CH) and .alpha.-(N-alkenylamino)-.beta.-(o-  
 bromophenyl)propanenitriles 2-BrC6H4CH2CH(CN)NRCH2CH:CR1R2 (R = Ph,  
 CH2Ph,  
 R1 = H, Me, Ph, R2 = H, Me) undergo **palladium**-catalyzed  
 conversion into o-(methylamino)benzonitrile, o-  
 [(alkenylamino)ethenyl]benzonitriles, N-alkenylanilines, 3-benzazepines,  
 .gamma.-carboline and a pyrrolo[3,2-b]indole. The reactions involve  
 intramol. addns. of arylpalladium to the cyano group and subsequent  
 processes such as cyano group transposition, hydrolysis,  
 electrocyclization, Et group transfer and oxidative aromatization. A  
 general mechanism for the **palladium**-catalyzed arylation of a  
 cyano group is proposed.  
 RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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 L# LIST L1-L26 HAS BEEN SAVED AS 'NEOTAMESRCH/L'

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	11.33	239.29
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NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area  
NEWS 4 Apr 09 ZDB will be removed from STN  
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and  
IFIUDB  
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and  
ZCAPLUS  
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER  
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available  
NEWS 9 Jun 03 New e-mail delivery for search results now available  
NEWS 10 Jun 10 MEDLINE Reload  
NEWS 11 Jun 10 PCTFULL has been reloaded  
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment  
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;  
saved answer sets no longer valid  
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY  
NEWS 15 Jul 30 NETFIRST to be removed from STN  
NEWS 16 Aug 08 CANCERLIT reload  
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN  
NEWS 18 Aug 08 NTIS has been reloaded and enhanced  
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)  
now available on STN  
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded  
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded  
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced  
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced  
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 27 Oct 21 EVENTLINE has been reloaded  
NEWS 28 Oct 24 BEILSTEIN adds new search fields  
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on  
STN  
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002  
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT  
NEWS 32 Nov 25 More calculated properties added to REGISTRY  
NEWS 33 Dec 02 TIBKAT will be removed from STN  
NEWS 34 Dec 04 CSA files on STN  
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 36 Dec 17 TOXCENTER enhanced with additional content  
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 38 Dec 30 ISMEC no longer available  
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS  
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003  
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003  
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,  
ENERGY, INSPEC  
NEWS 43 Feb 13 CANCERLIT is no longer being updated  
NEWS 44 Feb 24 METADEX enhancements  
NEWS 45 Feb 24 PCTGEN now available on STN  
NEWS 46 Feb 24 TEMA now available on STN  
NEWS 47 Feb 26 NTIS now allows simultaneous left and right truncation  
NEWS 48 Feb 26 PCTFULL now contains images  
NEWS 49 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results